

## Claims

1. A method for crystallization of proteins and peptides, characterized in that (a)  
a protein solution or a peptide solution, in which the solvent is water, and (b)  
5 a polymer solution, in which alginate or dextrin or chitosan or pectin or  
hydrolysate of any above mentioned polymer or a mixture of any above  
mentioned polymer is dissolved in water, are prepared and that the prepared  
solutions (a) and (b) are mixed together and that after the combining the  
protein or the peptide crystallizes permanently.  
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2. The method according to claim 1, characterized in that the crystallizing  
polymer solution contains alginate or a gel thereof 8% or less.
3. The method according to claim 1, characterized in that the crystallizing  
15 polymer solution contains dextrin 30% or less.
4. The method according to claim 1, characterized in that the crystallizing  
polymer solution contains chitosan or a gel thereof 1% or less.
- 20 5. The method according to claim 1, characterized in that the crystallizing  
polymer solution contains pectin or a gel thereof 9% or less.
6. The method according to claim 1, characterized in that the crystallizing  
solution is a mixture of two or more of the polymers.  
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7. The method according to any one of above claims characterized in that the  
crystallizing polymer is hydrolyzed.
8. The method according to any one of above claims, characterized in that the  
30 crystallization occurs either under stirring or without stirring within 1–7 days.

9. The method according to any one of above claims, characterized in that it can be used for preparing crystals, the size of which is 1–100 micrometers.
- 5 10. The method according to claims 1–9, characterized in that by stirring continuously during the crystallization very small crystals can be prepared, the size of which is in the range of 1–10 micrometers.
- 10 11. The method according to claims 1–10, characterized in that the protein or the peptide crystallized like this may float freely as uniform suspension, which can be fed with moderate pressure through a capillary.